

25275
Oxidation of isotactic polypropyleneS/190/61/003/007/019/021
B101/B230

tube, was measured by a Wheatstone bridge. Volatile acids were determined by passing O_2 through the heated reaction vessel and subsequent bubbling through $Ba(OH)_2$. Acid quantity absorbed was determined by titration. For determining the acetaldehyde and formaldehyde, the gaseous products were trapped in a 0.1 molar solution of LiOH; the aldehydes were determined by polarography. Acetic acid was determined by conversion to calcium acetate, heating to high temperature, and reacting the acetone produced with o-nitro-benzaldehyde in alkaline medium. Reducing the sample with magnesium powder, presence of formic acid was proved by drop reaction with phenylhydrazin hydrochloride and potassium ferrocyanide. Passing the reaction products with O_2 in the absorber failed to turn out reproducible results. These were obtained by following arrangement of experiment: A test tube, lined inside with solid KOH, was placed into the reaction vessel. Into this test tube the polymer film (0.1 mm thick, weight 0.03 g) wound around a glass tube was introduced leaving a clearance of about 3 mm between KOH and film. Fig. 5 shows the experiment results at 150°C. The maximum oxidation rate was rapidly attained after the beginning of

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Oxidation of isotactic polypropylene²⁷⁵

oxidation. It was depending on the surface area of the sample and, here-with, on the rate of diffusion. After consuming 0.73 moles of O₂ per mole of monomer links, oxidation ceased. About 50 % of the original weight of the sample were left over. In the oxidation products were found: acetic and formic acids; acetaldehyde and formaldehyde occurred only in subsequent phases of oxidation. For formaldehyde, merely qua-litative determination was possible, probably, for being oxidized either to formic acid or to CO₂. Formation of acetaldehyde and acid products was in correspondence with the Arrhenius equation. For the formation of volatile acids E = 22 kcal, for the formation of acetaldehyde E = 30.4 kcal was calculated. Various possible types of reactions were discussed: 1) Isomerization of the peroxide radicals with formation of formaldehyde and acetaldehyde; 2) decomposition of peroxides with formation of alcohol groups in the chain; 3) breaking the chain and decomposition of hydro-

X

peroxide; formation of the radical CH₂[·]-CH-R₂ forming again a peroxide;

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Oxidation of isotactic polypropylene

this may decompose a) forming an alcohol group at the end of the chain; b) forming formaldehyde and acetaldehyde. From Fig. 5 it is deduced that the rate of formation of volatile acids is lower by two orders of magnitude than the rate of O₂ absorption. At maximum oxidation rate merely 8 % are ascribed to reactions 1) and 3b). Accordingly, in the first phase of oxidation, predominantly alcohols are formed. Mentioned are: V. B. Miller, M. V. Neyman, V. S. Pudov, Yu. A. Shlyapnikov, and L. I. Lafer. There are 6 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publication reads as follows: W. L. Hawkins, W. Matreyek, F. H. Winslow. Papers presented at Boston Meeting of American Chemical Society, 19, 30, 1959.

ASSOCIATION: Scientific Research Institute of Macromolecular Chemistry, Brno

SUBMITTED: January 7, 1961

Card 4/5

Z/009/63/000/001/003/006
E112/E435

AUTHOR: Balabán, Luboš

TITLE: Photolysis of isotactic polypropylene and its inhibition

PERIODICAL: Chemický průmysl, no.1, 1963, 45-49

TEXT: The photodegradation of polypropylene, a free-radical process, gives rise to alkyl radicals with great affinity for oxygen, resulting in a decrease of molecular weight and formation of oxidation products, such as alcohols, aldehydes, acids and ketones. The oxygen uptake of a sample of irradiated polypropylene is therefore an indication of its light-stability and a means of evaluating the inhibition efficiency of various UV absorbers. New apparatus is described, capable of recording volume-changes of oxygen, surrounding an inhibition treated and light-exposed sample of polypropylene. The polymer was prepared from propylene using the catalyst system $TiCl_3-Al(C_2H_5)_3$; the inhibitors were added in ratios of 6×10^{-4} mole per 100 g of polypropylene. The tested UV absorbers included salicylates, condensation products of salicylaldehyde with aromatic and aliphatic amines, 2-phenylbenzothiazole, 2-(2'-hydroxy-5'-methylphenyl)benzotriazole.

Card 1/2

Photolysis of isotactic ...

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E112/E435

The results are expressed in terms of induction periods. The best results were obtained with the hydroxybenzophenones. Resorcinol salicylate, although a poor absorber at $\lambda = 3300 \text{ \AA}$, proved a good stabiliser. This is considered to be due to a photo-initiated isomerisation into a di-hydroxylated derivative of benzophenone. There are 6 figures and 1 table.

ASSOCIATION: Výzkumný ústav makromolekulární chemie, Brno
(Macromolecular Chemistry Research Institute, Brno)

SUBMITTED: September 4, 1962

Card 2/2

KUSHNIRENKO, G.Ye.; BALABAN, M., red.

[Corn in Moldavia; bibliographical index of literature
for the 25 years, 1838-1963] Kukuruza v Moldavii; bibli-
ograficheskii ukazatel' literatury za 125 let (1838-1963 gg.).
Kishinev, Kartia moldoveniaske, 1964. 219 p.

(MIRA 18:11)

SHIMDER, N.L., kand.med.nauk; BALABAN, M.B.

Diagnosis of bronchoesophageal fistula. Vest.rent. i red. 33 no.2:
75-76 Mr-Ap '58. (MIRA 11:6)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. P.V.
Ryshov) i rentgenovskogo otdeleniya Respublikanskoy klinicheskoy
bol'nitsy v Kishineve (glavnnyy vrach N.A.Tesemitsanu)
(BRONCHI, fistula
bronchoesophageal, x-ray diag. (Rus))
(ESOPHAGUS, fistula
name)

BALABAN, M.B.

Stomach cancer in the young. Zdravookhranenie 2 no.3:53-54
My-Je '59. (MIRA 12:10)

1. Is kafedry rentgenologii i radiologii (zav. - kand.med.nauk
A.P.Burkalov) Kishinevskogo meditsinskogo instituta i Respubli-
kanskoy klinicheskoy bol'nitey (glavnnyy vrach Yu.B.Kasperskiy).
(STOMACH--CANCER)

BALABAN, M.B.; BURKALOV, A.P.

Method for intravenous cholecystography. Trudy Kish.gos.med.inst.
13:171-173 '60. (MIRA 16:2)

1. Kafedra rentgenologii i radiologii Kishinevskogo gosudarst-
vennogo meditsinskogo instituta.
(GALL BLADDER—RADIOGRAPHY)

SHULYAK, L.P.; BALABAN, M.B.; DYUBINA, T.D.

X-ray diagnosis of portal hypertension. Trudy Kish.gos.med.inst.
13:175-178 '60. (MIRA 16:2)

1. Kafedra gospital'noy khirurgii i kafedra rentgenologii i radiologii Kishinevskogo gosudarstvennogo meditsinskogo instituta.
(PORTAL HYPERTENSION) (DIAGNOSIS, RADIOSCOPIC)

BURKALOV, A.P., dotsent; VOZNYUK, I.Ya., dotsent; BALABAN, M.B.

Course of severe acute radiation sickness following intravenous administration of bone marrow (experimental study). Voen.-med. zhur. no.9:23 S '61. (MIRA 15:10)
(RADIATION SICKNESS) (MARROW--TRANSPLANTATION)

BALABAN, M.B. (Kishinev, Podol'skaya ul., d.80); YAKUNINA, L.N.

Hip osteotomy in melorheostosis. Ortop. travm. i protez.
24 no. 2:65-66 F'63. (MIRA 16:10)

1. Iz kafedry obshchey khirurgii (sav. - prof. N.L.Gladyshevskiy)
i kafedry rentgenologii i radiologii (sav. - dotsent A.P.
Burkalov) Kishinevskogo meditsinskogo instituta na base Res-
publikanskoy klinicheskoy bol'nitsy.

*

ANDREYEV, Vladimir Nikolayevich(1889-1962), prof. doktor biol.
nauk; PANIN, V., red.; BALABAN, M., red.

[Trees and shrubs of Moldavia] Derev'ja i kustarniki
Moldavii. Kishinev, Kartia moldoveniaske. No.2. 1964.
275 p. (MIRA 18:4)

BALAKH, N. D.

Drugstores

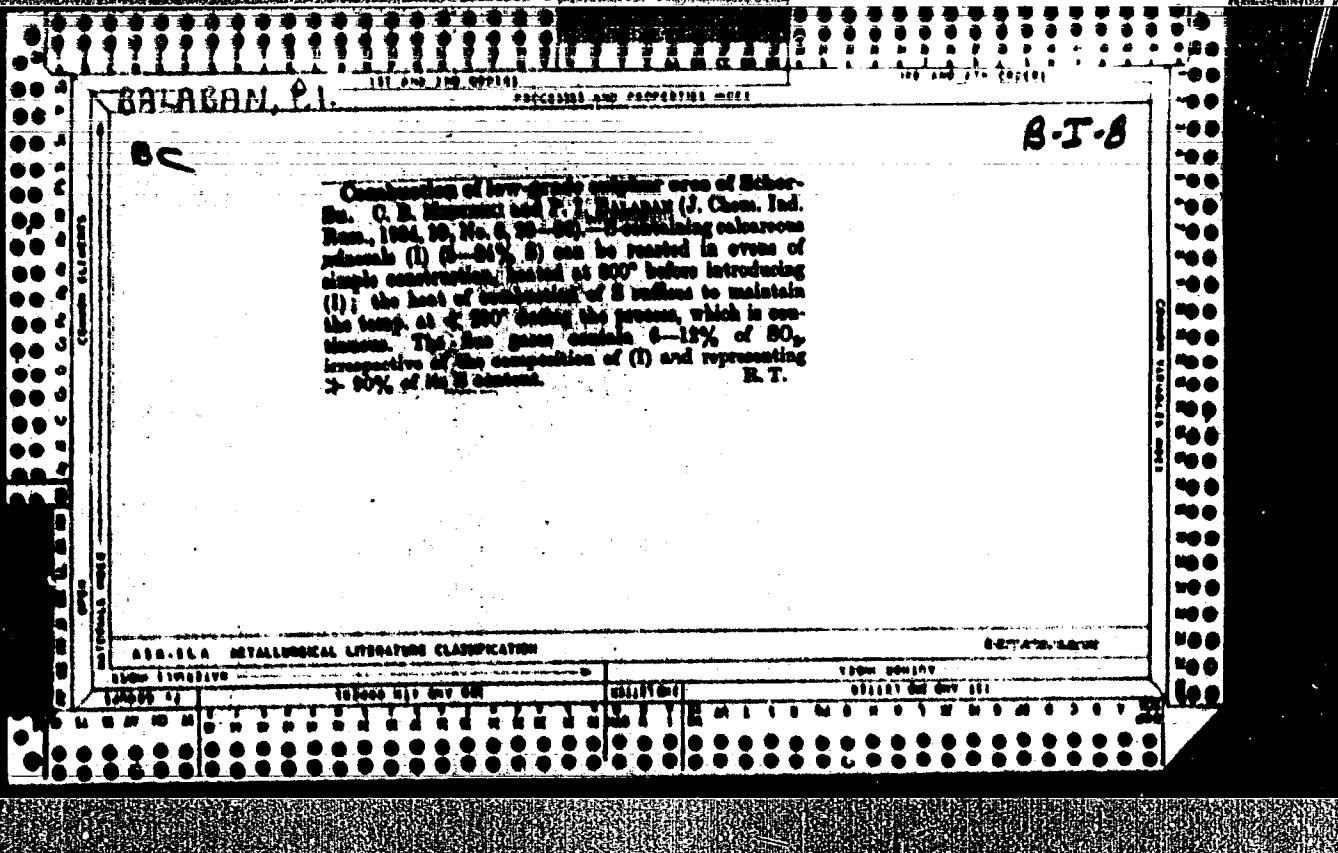
Organization of a pharmacy in the rural district center. Apt. delo. no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952.
UNCLASSIFIED.

MAKHOVICH, S.D.; BALABAN, N.I.

Result of centralized bookkeeping. Zdravookhranenie 5 no.5:
47-48 S-0'62. (MIRA 16:7)

1. Is Leovskoy rayonnoy bol'nitsy (glavnnyy vrach - S.D.
Makhovich), Moldavskaya SSR.
(LEOVO—DISTRICT—HOSPITALS—ACCOUNTING)



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103130005-8

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103130005-8"

BALABAN, P.; UBAYDULLAYEV, Kh.; MIROLYUBOV, V.; KISHKO, O.; KIYASHCHENKO, V.,
TAMOtant

Changes and improvements in the properties of clays. Stroi.mat.,
izdel. i konstr. 1 no.8:22-23 Ag'55. (MIRA 8:11)

1. Glavnnyy inzhener Voroshilovgradskogo kirkichnogo zavoda no.21
(for Kishko)
(Clay)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8

inabari, v.l.

✓ Medieval glasses of Uzbekistan. P. I. BALABAN AND M. K.
RAKHMEDOV. Sloboda Kremly, 12 (S) TB-20 (1955) - Historical
B Z K. (1)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8"

BALABAN, V.

Filmstrips are of great educational value. Mauka i pered. op. v
sel'khoz. 18 no.2:65-66 F '58. (MIRA 11:3)
(Agriculture--Study and teaching)

BALANOV. V.G.

KHOKHOL, Ye. N., redaktor; BALANOV, V.G., redaktor; KOL'BEK, P.Yu.,
redaktor; LUK'YANOVA, Ye. M., redaktor; MAKSIMOVICH, N.A., redaktor;
SIGALOV, D.L., redaktor; TIMOSHENKO, L.V., redaktor; LOKHMATYY,
Ye. G., tekhnicheskiy redaktor

[Transactions of the second Congress of Pediatricians of the
Ukrainian S.S.R. in 1955] Trudy II s'ezda vrachei-pediatrov
Ukrainskoi SSR. Red. kollegija N.N. Khokhol i dr. Kiev, Gos.
med. izd-vo USSR, 1956. 314 p. (MIRA 10:4)

1. S'ezd vrachey-pediatrov Ukrainskoy SSR. 2d, 1955.
(PEDIATRICS)

BALABAN, V.G. prof., YELSHINA, M.A., dots. MOL'CHENKO, Ye.Y.

Coli pyspepsia.[with summary in English]. Pediatrīja 36 no.5:10-16
My'58 (MIRA 11:6)

I. Iz Kiyevskogo meditsinskogo instituta (dir. - dotsent I.P.
Aleksyenko) i Kiyevskogo instituta epidemiologii i mikrobiologii
(dir. - dotsent S.N. Terekhov).
(DYSPEPSIA)

BALABAN, V.G., [Balaban, V.H.], prof.; MOSHCHICH, P.S. [Moshchych, P.S.], assistant

Clinical characteristics of sluggishly-developing forms of rheumatic fever in children. Ped., akush. i gin. 23 no.4:3-7 '61.

(MIRA 17:1)

1. Kafedra fakul'tetskoy pediatrii (zav.-prof.V.G.Balaban [Balaban, V.H.]) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. akademika Bogomol'tsa (direktor - dotsent V.D.Bratus').

KHOKHOL, Ye.N., prof., red.; BALABAN, V.G., prof., red.; KOL'NER, R.Yu., SIGALOV, D.L., red.; LUK'YANOVA, Ye.M., kand.med.nauk, red.; ANDRUSHCHUK, A.A., kand.med.nauk, red.; BABKO, I.M., kand.med.nauk, red.; BYKOV, N.M., tekhn.red.

[Acute gastrointestinal diseases of non-dysenteric etiology in young children; proceedings of a Republic Meeting and Broadened Plenum of the Pediatrics Society of the Ukraine] Ostrye zheludochno-kishechnye zabolевания недизентерийного этиолога у детей раннего возраста; труды. Red. koll.: E.N.Khokhol i dr. Kiev, Gos.med.izd-vo USSR, 1961. 199 p.

(MIRA 14:11)

1. Respublikanskoje soveshchaniye i rasshirennyy plenum nauchnogo obshchestva detskikh vrachey Ukrayny, Odessa, 1959. 2. Chlen-korrespondent AMN SSSR(for Khokhol).

(DIGESTIVE ORGANS—DISEASES)

BALABAN, V.G. [Balanban, V.H.], prof.; ZIKOVA, O.L. [Zykova, O.L.], assistent

Role of staphylococci in intestinal diseases in infants. Ped.,
akush. i gin. 25 no.19-13 '69. (MIRA 16:5)

1. Kafedra fakul'tets'koi pediatrii (sav.-prof. V.G.Balaban
[Balaban, V.H.]) Kiiv's'kogo medichnogo institutu (rektor-
dotsent V.D.Bratus').
(STAPHYLOCOCCAL DISEASE) (INTESTINES—DISEASES)
(INFANTS—DISEASES)

BALABAN, V.G., prof.; MOSHCHICH, P.S., dotsent

Some problems of differential diagnosis of tonsillogenic intoxication and a sluggish course of rheumatic fever in children. Vop. revm. 3 no.4:61-67 O-D '63.

(MIRA 17:2)

1. Iz kafedry fakul'tetskoy pediatrii (zav.- prof. V.G. Balaban) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta imeni A.A. Bogomol'tsa.

BALABAN, V.S.; TERLETSKAYA, T.M.

Peculiar course of acute rheumatic fever with an unusual leucocyte reaction. Vrach.delo no.6:645-647 Je '57. (MLRA 10:8)

1. Pakul'tetskaya terapevcheskaya klinika (i.o. zav. klinikoy - dotsent V.S.Balaban) Odesskogo meditsinskogo instituta.
(RHEUMATIC FEVER) (LEUCOCYTES)

BALABAN, V.S., dotsent

Use of butadiene in the treatment of infectious nonspecific (rheumatoid) polyarthritis. Vrach.delo no.6:635-637 Je '59. (MIRA 12:12)

1. Kafedra fakul'tetskoy terapii (zav. - sashushenny deyatel' nauki, prof. M.A. Yasenovskiy) Odesskogo meditsinskogo instituta.
(PYRAZOLIDINEDIONE) (ARTHRITIS, RHEUMATOID)

BALABAN, V.S.; MAGORSKAYA, V.Ye.

Influence of vitamin B₁ on arterial pressure. Vrach.delo no.7:
31-33 Jl '60. (MIRA 13:7)

1. Jakul'tetskaya terapeuticheskaya klinika lechebного fakul'-
teta (zavedyushchiy - zasluzhennyy deyatel' nauki, prof. M.A.
Yasinovskiy) Odesskogo meditsinskogo instituta.
(BLOOD PRESSURE) (THIAMINE)

BALABAN, V. Z.

"Horizontal or Two-Body Hives?" Pchelovodstvo, 29, No.9, 1952

~~BALABAN, Ya. N.~~

Therapy of pain. Sovet. med. 17 no.10:31-32 Oct 1953.

(CIML 25:5)

1. Candidate Medical Sciences. 2. Chkalov.

BALABAN, Ya.M.; GRISHCHENKO, V.V. [Hryshchenko, V.V.]

Chen-chu therapy for bronchial asthma in children. Ped., akush.
i gin. 23 no.1:23-27 '61. (MIRA 14:6)

1. Kiyevskaya spetsial'naya detskaya klinicheskaya bol'niitsa
(glavnyy vrach - T.P.Novikova).
(ACUPUNCTURE) (ASTHMA)

RICHENKO, Nikolay Iosifovich; BALABAN, Ya.M., red.; LEVCHUK, A.O.,
tekhn. red.

[Inoculations against poliomyelitis] Privivki protiv polio-
mielita. Kiev, Gosmedizdat USSR, 1962. 101 p. (MIRA 15:7)
(POLIOMYELITIS—VACCINATION)

BOGDANOV, I.L. [Bohdanov, I.L.]; BALABAN, Ye. M.; DUBINSKAYA, K.O.
[Dubyns'ka, K.O.]; ALEKSEYEVA, N.V. [Aleksieieva, N.V.].

Use of corticosteroids in the acute stage of poliomyelitis and
in other nerve infections. Ped., akush. i gin. 24 no.1:9-11'62.
(MIRA 16:8)

1. Institut infektsionnykh bolezney AMN SSSR, Kiyev.
(CORTICOSTEROIDS) (POLIOMYELITIS)

BALABAN, Ya.M.; ROZENFEL'D, L.G.

Use of the method of acupuncture on the auricula ("Er-Chzhen"-Liao" [Erh-Chen-Liao]) for the differential diagnosis and therapy of disorders of the motor evacuatory function of the stomach.
Vrach.delo no.10:96-98 O '62. (MIRA 15:10)

1. Kabinet chzhen'tsyu terapii (zav. - starshiy nauchnyy sotrudnik Ya.M.Balaban) Instituta infektsionnykh bolezney Ministerstva zdravookhraneniya UkrSSR i klinicheskaya bol'nitsa Shevchenkovskogo rayona Kiyeva.
(ACUPUNCTURE) (STOMACH--MOTILITY)

YASHCHENKO, M.A., kand.med. nauk; BALABAN, Ya.M., starshiy nauchnyy
sotrudnik (Kiyev)

Arterial hypertension as an early symptom of a cerebellar tumor.
Vrach. delo no.6130-132 Je'63. (MIRA 16:9)

1. Institut infektsionnykh bolezney Ministerstva zdravookhreniya ukrSSR.
(CEREBELLUM—TUMORS) (HYPERTENSION)

MEZHENINA, Ye.P., prof. (Kiyev 1, Kreshchatik, d.16, kv.1); USIKOVA, T.Ya.,
kand. med. nauk; RATNIKOVA, V.F.; BALABANETS, G.F.

Abstracts. Ortop., travm. i protez. 26 no.3:69 Mr '65.
(MIHA 18:7)

1. Iz Donetskogo instituta travmatologii i ortopedii (dir. -
prof. T.A.Revenko).

AKOL'ZIN, F.A., doktor tekhn. nauk; KAGAN, D.Ya., kand. tekhn. nauk;
BAIABAN-JRMENIN, Yu.V., inzh.; SHMIGEL', R.I., kand. tekhn. nauk

Protection of the heavy duty boiler units using nitrogen.
Teploenergetika 12 no.3:17-21 Mr '65. (MIFA 18:6)

1. Vsesoyuznyy teplatekhnicheskiy institut.

JOVANOVIC, Vasilije; MILKOVIC, Bosanka; BALABANIC, Beljko; ANDREJEVIC, Ijubica.

Artificial kidney. Srpski arh. celok. lek. 92 no. 6:635-642 Je '64

1. Interno odeljenje Gradske bolnice u Beogradu (Nacelnik: prof. dr. Mihailo Andrejevic); Hirursko odeljenje Gradske bolnice u Beogradu (Nacelnik: prof. dr. Milar Nitrovic).

JOVANOVIC, Vasilije; MIRKOVIC, Dusanka; BALABANIC, Veljko; ANDREJEVIC,
Ljubica

Artificial kidn y. Our first results. Srpski arh. celok. lek.
92 no.9:861-8.. S'64.

1. Interno odeljenje Gradske bolnice u Beogradu (Nacelnik:
prof. dr. Mihailo Andrejevic); Hirurško odeljenje Gradske
bolnice u Beogradu (Nacelnik: prof. dr. Mitar Mitrović).

BALABANOV, A.

Author of an article, "Concerning the Packing of Chlorinated Lime".
A. BALABANOV, Senior Veterinarian, Moldavian Trust of "Zooveterinary Supply"
SU:Veterinariya; Vol. 28; No. 6; 64; June 1951 mail de g
Trans. # 180 by L.Iulich (filed under Moldavian Trust of "Zooveterinary Supply")

BOL'SHAKOV, L.A., kand.tekhn.nauk; YEGNUS, R.M., inzh.; BALABANOV, A.Kh.,
inzh.; LUGOVAYA, L.N., inzh.

Using rapidly drying mixtures for the making of molds and cores
for large castings. Stal' 23 no.8:710-711 Ag '63. (MIRA 16:9)

1. Metallurgicheskiy zavod "Azovstal'."
(Sand, Foundry) (Molding (Founding))

BOL'SHAKOV, L.A., kand.tekhn.nauk; YEGNUS, R.M., inzh.; SVIRIDENKO, F.F.,
inzh.; BALABANOV, A.Kh., inzh.

Effectiveness in the use of lightweight, solid-bottom ingot molds.
Stal' 23 no.8:712-713 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy zavod
"Asovstal'".

(Ingot molds)

ACC NR: AP3026801

EWP(1)/ETC(a) JD/WW/DU

TOPIC CODES: EWP(1)/EWP(2)/T/EWP(3)/EWP(4)/EWP(5)/EWP(6)

SOURCE: CODE: UR/0286/65/000/017/0003/0083

INVENTOR: Kaspiyev, S. P., Belobanov, A. N., Krugel'skiy, I. V.

Lashchenov, V. A.

TITLE: A stand for testing roller bearings,¹⁴ sliding bearings,¹⁷ and
friction couples for wear in high vacuum or in space. Class 42.
No. 174410

SOURCE: Byulleten' izobreteniya i tovarnykh znakov, no. 17, 1965, 83

TOPIC TAGS: test stand, performance test, space chamber test,
bearing, friction, vacuum chamberABSTRACT: This Author Certificate presents a stand for testing
roller bearings, sliding bearings, and friction couples for wear in
high vacuum or in space. The stand contains several spindles (each
consisting of a shaft operating in a vacuum and intended for mounting
the tested bearings), units for axial and radial loading of bearings,
a mechanism for measuring the friction moment of the tested couples,
a drive shaft with a driven gear, an electrical clutch for transmitting
the torque from the drive shaft to the shaft with the tested friction
couples, and the main drive shaft with a driving gear meshing with the

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UDC: 620.178.16.05:621—233.2(201)

L 6286-66

ACC NR: AP5026801

driven gears on the spindles. To prevent stopping all the spindles of the stand by the jamming of one of the tested couples, the driving gear is connected with the driven gears on the spindles through idler gears. The shafts of the idler gears are set in a casing which turns about the rotation axis of the drive shaft. The casing is provided with a device which permits it to turn in case of jamming and to release the idler gear from the driving gear. To prevent an accidental separation of the idler gear from the driving gear and their subsequent return to meshing position, the rotary casing may be connected to the piston of the damping power cylinder. [04]

SUB CODE: IX/ SUBN DATE: 22Jan64/ ORIG REV: 000/ OTH REV: 000/

ATD PRESS: 4131

Card 2/2

COV-125-58-3-16/10

AUTHOR: Balabanov, A.M., Engineer
TITLE: Universal Head for Vibro-Arc Welding (Universal'naya golovka
dlya vibrodugovoy naplavki)
PERIODICAL: Svarochnye proizvodstvo, 1956, Nr 3, pp 44-46 (USSR)

ABSTRACT: The described welding head, for which the designer obtained a Certificate of Authorship in 1956, was designed and tested at the Chelyabinsk Tractor Plant. It can be used for vibro-arc welding on external and internal cylindrical surfaces, slits and planes. Detailed description and operation information is given. There are 4 photos, and 3 diagrams.

1. Arc welding--Equipment

Card 1/1

BALABANOV, Artemiy Melent'evich; BARANOV, M.S., red.; GARMASH, L.M., otv.
za vypusk; SUKHAREVA, R.A., tekhn.red.

[Built-up welding with a weaving arc] Vidrodugovaisa naplevka.
Moskva, 1959. 31 p. (Moskovskii dom nauchno-tehnicheskoi pro-
pagandy. Peredovoi opyt proizvodstva. Seriia: Progressivnaia
tekhnologiya mashinostroeniia, vyp. 2). (MIRA 13:9)

(Electric welding)

(Machinery--Maintenance and repair)

17(14)

SOV/177-58-9-6/51

AUTHOR: Balabanov, A.R., Lieutenant-Colonel of the Medical Corps

TITLE: Primary Plastic Operation of Traumatic Defects of the Endocranum and Cranial Bones

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 9, pp 21-24
(USSR)

ABSTRACT: The problem of primary plastic operations of cranial defects has been discussed by V.A. Shaak, G.F. Tseydler, V.I. Rasumovskiy, A.V. Britnev and V.M. Kosogledov since the beginning of the 20th century. In treating cranial defects without applying primary plastic, B.G. Gertsberg and V.A. Svetlichnyy ascertained that the frequency of paralysis and the degree of paresis considerably increased in the postoperative period. These phenomena are not observed when primary plastic is applied. From 1953 on, the author has applied primary plastics in open and closed fractures of the bones of the cranial vault. Based on his

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SOV/177-58-9-6/51

Primary Plastic Operation of Traumatic Defects of the Endocranum
and Cranial Bones

experiences, he concludes that: 1) primary plastic does not cause any complications and can be applied in patients with various kinds of fractures in the cranial vault; 2) surgical treatment of cranial and cerebral wounds with simultaneous plastic substitution of the defects of the endocranum and the cranial bones creates the most favorable conditions for the healing of the cranio-cerebral wounds, and the activity of the myelencephalon which results in a rapid normalization of generally cerebral, nest and even liquorodynamic disturbances; 3) the primary plastic of traumatic defects of the endocranum and the cranial bones is the most complete surgical treatment of crano-cerebral wounds, gives good, early results, and is widely recommended. There are 2 photographs and 1 Soviet reference.

Card 2/2

BALABANOV, A.R. (Moskva)

Primary plastic repair of defects of the dura mater and bones
in open fractures of the cranial vault. Vop.neirokhir. 23
no.3:18-22 My-Je '59. (MIRA 12:8)

(CRANIUM, wds. & inj.

open inj., plastic repair of dura mater &
bone defects (Rus))

(DURA MATER, surg.
plastic in open cranial inj. (Rus))

BALABANOV, A.R. (Moskva)

Primary delayed plastic surgery of defects of the skull in
fractures of the anterior parabasal areas. Vop.neirokhir.
no. 5:53-54 '61. (MIRA 14:11)
(SKULL-FRACTURE) (BONES-TRANSPLANTATION)

L 00668-67 EMT(m)/EMP(t)/FTI IJP(c) JD
ACC NR. AP6017589

SOURCE CODE: UR/0367/66/003/002/0209/0212

AUTHOR: Balabanov, A. Ye.; Delyagin, N. N.; Khusseyn El' Sais

ORG: Institute of Nuclear Physics of the Moscow State University (Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta)

TITLE: Mossbauer effect for gamma transitions with energies 60.0 and 86.5 kev in Cd¹⁵⁵

SOURCE: Yadernaya fizika, v. 3, no. 2, 1966, 209-212

TOPIC TAGS: gadolinium, gamma transition, Mossbauer effect, hyperfine structure, absorption spectrum

ABSTRACT: The purpose of the investigation was to check on the hyperfine structure of the resonance absorption spectra of gadolinium. The measurements were made with a Eu¹⁵³ source on gadolinium oxide in a host lattice of samarium oxide at a temperature 80K, at conditions under which the hyperfine structure in the gadolinium oxide disappears, making it possible to obtain an emission line with width close to natural. The absorption spectra were measured with the aid of an electrodynamic spectrometer; constant velocity of the source relative to the absorber was provided by means of a sawtooth electrodynamic vibrator. The gamma quanta were registered with a scintillation spectrometer with NaI(Tl) crystal. For the 86.5-kev gamma radiation, the width of the absorption line was found to be 0.37 ± 0.06 mm/sec, which agrees with the natural line width calculated from the level lifetime. The width of the 60.0-kev level was found to be 1.4 ± 0.4 mm/sec or $(2.8 \pm 0.8) \times 10^{-7}$ ev, which agrees with a

Cord 1/2

L 00668-67

ACC NR: AR6017589

level lifetime $(2.4 \pm 0.7) \times 10^{-9}$ sec, approximately one order of magnitude larger than obtained from the known data on the probability of Coulomb excitation and the M1/E2 ratio for 60.0 kev. The probability of the Mossbauer effect for gamma quanta with 86.5 kev energy at 80K was found to be $(1.2 \pm 0.2)\%$, corresponding to a characteristic Debye temperature of $191 \pm 10^\circ$. The authors thank V. S. Shpinel' for interest in the work and useful discussions. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 01Jul65/ ORIG REF: 001/ OTH REF: 004

Card 2/2 vlr

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8"

MAGNITSKIY, Konstantin Pavlovich. Prinimali uchastiye: GOSUDAREVA,
A.G.; PANITKIN . V.A.; BELYAKOVA, N.G.; KAPUSTYANSKIY, A.N.;
ZIUKOV, S.N.; NIKULINA, F.F.; BALABANOV, B.G.; VISHNYAKOVA,Ye.,
red.; KUZNETSOVA, A., tekhn. red.

[Control of the nutrition of field and vegetable crops] Kont-
rol' pitanii polevykh i ovoshchnykh kul'tur. Moskva, Mosk.
rabochii, 1964. 302 p. (MIRA 17:2)

1. Nauchnyye sotrudniki laboratorii kaliya Nauchnogo instituta
po udobreniyam i insektosfungsidsam (for Gosudareva, Panitkin,
Belyakova, Kapustyanskiy, Zhukov, Nikulina, Balabanov).

NEDKOVA-BRATANOVA, N., BAZABANOV, G.

Etiology, clinical aspects and treatment of chronic ulcerative colitis.
Suvrem. med. Sofia 8 no.7:67-75 1957.

1. Iz Katedrata na gastroenterologii i deitetika pri DSUL. Zav.
katedrata: prof. T. Tashev,
(COLITIS, ULCERATIVE
etiol. & ther. of chronic cases)

GOL'DBERG, N.A. (deceased); BALABANOV, G.P.

Preparation and properties of aryl-sulfoacid azides. Zhur. org.
khim. 1 no.9:1604-1606 S '65. (MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut azotnoy promyshlennosti i produktov organicheskogo
sintesa. Submitted September 14, 1964.

BALABANOV, I.

Establish a unified sector of currency circulation and credit. Fin. i kred.
SSSR no. 6:59-61 Je '53.
(MIRA 6:6)
(Banks and banking)

PAVLOV, M., inzh.; BALABANOV, I.

Results from application of the standards of square meter in the
"GORUBSO" State Mining Enterprise, Madan. Trud i tseni 3 no.9173-78
'61.

1. NIB- baza Durshavno minno predpriiatie "Corubso", Madan.
(Coal mines and mining)

BALABANOV, Iv., inzh.; STEPANOV, Iv., inzh.

A new series of aerial contractors of the Electric Equipment Plant of Plovdiv. Elektroenergia 14 no. 10:16-19 0'63.

1. Elektroaparaturen zavod v Plovdiv.

BULGARI/General Problems of Pathology - Tumors. Human Tumors. U.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8830

Author : Balabanov, Krum., Grigoriev, Iots

Inst : "V. Chervenkov" Medical Academy

Title : Relapses after Treatment of Skin Cancer

Orig Pub : Nauchn. tr. Med. Akad. "V. Chervenkov", 1953 (1954), 1,
No 1, 165-177

Abstract : On the basis of the study of relapses of skin cancer
after treatment in 2520 patients it was established
that the majority of relapses occur during the first
two years and constitute 77.5%; the squamous-cell can-
cer relapses seven times more often than does the basal-
cell. In 85% of the cases the relapses occurred on the
face, the most frequent localization of skin cancer.

Card 1/1

BALABANOV, K.; PUFUV, L.

"Clinical and Experimental Studies of Treatment for Skin Tuberculosis." p. 2,
(ZDRAVEN FRONT, No. 47, Nov. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

COUNTRY	: BULGARIA
CATEGORY	: General Problems of Pathology, Allergy
ABR. JOUR.	: RZBiol., No. 12 1958, No. 56293
AUTHOR	: Mihailov, S., Tsankova, P.
INST.	: The "V.Caervenkov" Higher Medical Institute
TITLE	: Allergy in Patients with Cutaneous Tuberculosis.
ORIG. PUB.	: Nauchn. Tr. Viss. Med. In-ta "V.Caervenkov" 1954 (1955), Vol. 2, No. 2, 139-126
ABSTRACT	: No abstract.

CARD: 1/1

BULGARIA/General Problems of Pathology - Tumors. Human Tumors. U.

Abs Jour : Ref Zhur - Biol., № 2, 1959, 8841

Author : Balabansov, K., Stoyanov, A.

Inst : Graduate Medical Institute, Sofia

Title : The Problem of Pre-Malignant Dermatoses

Orig Pub : Nauchni tr. Visshi. med. in-t. Sofiya. Klinich. katedri
1955(1957), 3, № 1, 149-157

Abstract : No abstract.

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- 42 -

BALABANOV, Kr., prof.; ANGLOV, N.

Results of the treatment of cutaneous tuberculosis with
isonicotinic acid hydrazide; preliminary report and results.
Suvrem. med., Sofia 6 no.12:33-41 1955.

1. Iz Katedrata po koshni bolesti pri Visshiia mediteinski
institut V. Chervankov-Sofiia (zav. katedrata: prof. L. Popov).
(TUBERCULOSIS, CUTANEOUS, therapy,
isoniasid. (Bul))
(NICOTINIC ACID ISOMERS, therapeutic use,
isoniasid in cutaneous tuberc. (Bul))

BALABANOV, Krum, professor; LEVKOV, Aleksandur

Treatment of cutaneous tuberculosis and of tuberculous epididymitis with new drugs. Izv.med.inst.Sofia 11-12:477-507 1955.

1. Koshta klinika, (dir.: prof. L. Popov) pri Visshiia meditsinski institut V. Chervenkov-Sofia.

(TUBERCULOSIS CUTANEOUS, therapy,
chemor.)

(TUBERCULOSIS, MALE GENITAL, therapy,
epididymis, chemother.)

BALABANOFF K.
SOCIETY MEDICA Spec.13 Vol.12/5 Dermatology, etc. May 53

1027. PRECANCEROUS DERMATOSIS (Bulgarian text) - Balabanoff Kr.
and Stojanoff A. Lehrst. für Haut-und Geslechtkrankh., Med. Hochsch., So-
fia - TRAV. INS1.MED.SUP.SOFIA 1957, 3/1 (148-157) Illus. 5

In 3 cases of epidermodysplasia verruciformis the transition from this affection to
a spinocellular carcinoma could be observed both clinically and histologically. The
authors consider epidermodysplasia a true precancerosis.

Tijdens - Maastricht (XIII, 5, 16)

BALABANOV, Krum, professor; TSANKOVA, Parshkova, doktor

Allergy in patients with cutaneous tuberculosis [with summary in French]. Probl.tub. 35 no.4:55-62 '57. (MLRA 10:8)

1. Iz kliniki kozhnykh i venericheskikh bolezney pri Vysshem meditsinskom institutu imeni Vylko Chervenkova (dir. - prof. L.Popov) (for Balabanov). 2. Iz Nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii (dir. Vl.Kalaydzhiev), Sofiya. (for Tsankova)

(TUBERCULIN REACTION
in cutaneous tuberc. (Bac))

BAIABANOV, K.; OSORGINA, S.

Treatment of cervico-facial actinomycosis. Suvrem. med., Sofia 9 no.8:
68-73 1958.

(FACE, dis.

actinomycosis, cervico-facial, ther. (Bul))

(same)

(ACTINOMYCOSIS, ther.
cervico-facial (Bul))

BALABANOV, Kr.; BAZHDEKOV, B.; CHUKOVA-BEZHINOVA, M.

Melkersson-Rosenthal syndrome with description of a case. Suvrem.
med., Sofia no.9/10:159-161 '59.

1. Is Katedrata po kozhni i venerichni bolesti pri VMI - Sofiia.
Zav.katedrata: prof. L. Popov i Katedrata po nervni bolesti pri
VMI - Sofiia. Zav.katedrata: dots. S. Boshinov.
(FACIAL PARALYSIS compl.)
(TONGUE dis.)

BALABANOV, Kr.; BAZHDEKOV, B.; SAMSONOVA, S.

On the problem of lupus erythematosus phenomenon. Suvrem.med.,
Sofia no.11:59-66 '59.

1. Iz Katedrata po kozhni i venericheski bolesti. Zav. katedrata:
prof. L. Popov.
(LUPUS ERYTHEMATOSUS)

POPOV, L.; BALABANOV, Kr.; SAMSONOVA, S.

Some functional and biochemical studies on lupus erythematosus with
special reference to the pathogenesis of this disease. Nauch. tr.
vissch. med. inst. Sofia 39 no.6:205-235 '60.

1. Predstavena ot prof. L. Popov, rukovoditel na Katedrata po koshni
i venerichni zaboliavaniia.

(LUPUS ERYTHEMATOSUS etiol)

POPOV, L.; BALABANOV, Kr.; GEORGIEVA, Sl.

Cytodiagnosis of pemphigus. Suvrem med., Sofia no.1:63-67 '61.

1. Klinika po koshni i venerichni bolesti pri Visshiaia meditsinski
institut, Sofiia. (Direktor: prof. L. Popov.)

(PEMPHIGUS diagn)

BALABANOV, K.; ANGLOV, N.

A case of verruca senilis degenerated into epithelioma. Suvar.
med. 12 no.12:75-78 '61.

1. Iz Katedrata po kozhni i venerichni bolesti pri VMI [Vissh
meditsinski institut] - Sofija (Rukov. na katedrata prof.
L. Popov).
(WARTS) (SKIN NEOPLASMS)

BALABANOV, Kr.

PUPOV, L.

Bulgaria

Professor

Head of the Department of Skin and Venereal Diseases
of the Higher Medical Institute (Viush Mediteinski
Institut), Sofia

Sofia, Dermatologiya i Venerologiya, supplement of
Svresanna Mediteina, No 1, 1962, pp 6-11.

"Evaluation of the Cytodiagnostic Method in Malignant
Tumors of the Skin"

Copauthored
BALABANOV, Kr., Department of Skin and Venereal Dis-
eases of the Higher Medical Institute
GEORGIEVA, Bl., Department of Skin and Venereal Dis-
eases of the Higher Medical Institute.

BULGARIA

Kr. BALABANOV and B. BAZHDEKOV, Department of Dermatovenereology
(Katedra po kozhni i venericheski bolesti) Head (rukovoditel) Prof
Kr. BALABANOV, Medical College (Vysshii meditsinski institut), Sofia.

"Two Cases of Behçet's Syndrome."

Sofia, Suvremenna Meditsina, Vol 14, No 2, 1963; pp 62-66.

Abstract [English summary modified]: Detailed clinical data about the first two cases reported in Bulgaria; women aged 27 and 40 respectively one became blind, the second required enucleation o.d. with retinal detachment developin o.s.; varied intensive treatment had little effect, virologic studies negative. Photograph of vulval aphthae. One Bulgarian, 8 Western references.

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6

[] BULGARIA

Kr. BALABANOV, Al. KONSTANTINOV and Ves. NAUMOV, Department of Dermatology of Medical College (Katedra po kozhni bolesti pri VMI) Head (rukovoditel na katedra) Prof Kr. BALABANOV, Sofia.

"Eccrine Spiradenoma."

Sofia, Suvremenna Meditsina, Vol 14, No 4, 1963; pp 64-69.

Abstract [English summary modified]: Description of first case reported in Bulgaria: small extremely painful tumor on shoulder of 28-year-old woodcutter. Very detailed histological data and discussion; speculation about origin from either eccrine or perhaps adjacent apocrine glands. Six photomicrographs, 10 Western references.

[] 1/1

POPOV, L., akad.; BALABANOV, Kr.; GEORGIEVA, Sl.

Evaluation of the cytodiagnostic method for malignant skin tumors. Dermato vener Sofia 1 no.1:6-11 '62.

1. Iz Katedrata po kozhni i venerichni bolesti pri VMI, Sofiia (Rukovod. na katedrata prof. L. Popov).
2. Chlen na Redaktsionnata kolegia, "Dermatologija i venerologija" (for Popov).
3. Chlen na Rekaktsionen suvet, "Dermatologija i venerologija" (for Balabanov).

BALABANOV, Kr.; GEORGIEVA, Sl.;

Colliquative tuberculosis of the external urethral orifice followed by the prepuce tuberculosis similar to granuloma anulare. Dermato vener Sofia 1 no.3:37-40 '62.

1. Iz Katedrata po koshni i venericheski bolesti pri VMI, Sofiia (rukov. na katedrata prof. L. Popov).
2. Chlen na Redaktsionen suvet, "Dermatologija i venerologija" (for Balabanov).

BALABANOV,X.; KONSTANTINOV,A.

On the vascular changes in dermohypodermitis. Nauch.tr.vissash.
med. inst. Sofiia 42 no.47-12 '63

1. Chair of skin and venereal diseases, (Director: Prof.K.Balabov),
Medical Institute, Sofia. *

BALABANOV, Kr.; BOIANOV, L.

A new clinical form of dermatopathia pigmentosa reticularis.
Dermato vener Sofia 1 no.3:40-43 '62.

1. Iz Katedrata po kozhni i venericheski bolesti pri VMI Sofia (rukov. na katedrata prof. L. Popov).
2. Chlen na Redaktsionen suvet, "Dermatologija i venerologija" (for Balabanov).
3. Chlen i sekretar na Redaktsionnata kolegiia, "Dermatologija i venerologija" (for Boianov).

BALABANOV, Kr.; DIMITROVA, I.

Erythema scarlatiniforme desquamativum recidivans. Suvr.med.
(Sofia) 15 no.3:26-28 '64

*

BALABANOV, K.; DOGRAMADZHEV, I.

Apropos of the treatment of vitiligo. Suvr. med. (Sofia)
15 no.5t28-31 '64

BALABANOV, Kr.; GURGIEVA, SI

Calcinosis et osteosis cutis multiplex. Dermato vener Sofia 3
no.2:112-116 '64.

1. Chair of Skin and Venereal Diseases at the Higher Medical
Institute, Sofia (Head of the Chair: Prof. Kr. Balabanov).

BALABANOV, Kr.; ANGELOV, N.; BALABANOV, V.

South American (Brazilian) blasomycosis, description of the
1st case in Bulgaria. Suvr. med. (Sofiia) 16 no.1:23-27 '65.

1. VMI, Sofia, Katedra po kozhni i venericheski bolesti,
(rukoveditel: Kr. Balabanov).

4

Concerning the methods of determination of certain areas of electrical and photoelectric properties of semiconductors by means of measurement of contact potential differences. K. S. Balabanov (20 minutes).

Photovoltaic effects in $\text{CdS}_x\text{Se}_{1-x}$. R. Andreychin, A. Ivanov, M. Nikiforov, Yu. Stanislavova (20 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

SOV/6 206

BALABANOV, L. M.

PHASE I BOOK EXPLOITATION

Konferentsiya po teorii plastin i obolochek. Kazan', 1960.

Trudy Konferentsii po teorii plastin i obolochek, 24-29 oktyabrya 1960. (Transactions of the Conference on the Theory of Plates and Shells Held in Kazan', 24 to 29 October 1960). Kazan', [Izd-vo Kazanskogo gosudarstvennogo universiteta] 1961. 426 p. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina.

Editorial Board: Kh. M. Mushtari, Editor; F. S. Isanbayeva, Secretary; N. A. Alumyaev, V. V. Bolotin, A. S. Vol'mir, N. S. Ganiyev, A. L. Gol'denveyzen N. A. Kil'chevskiy, M. S. Kornishin, A. I. Lur'ye, G. N. Savin, A. V. Sachenkov, I. V. Svirskiy, R. G. Surkin, and A. P. Filippov. Ed.: V. I. Aleksagin; Tech. Ed.: Yu. P. Semenov.

PURPOSE: The collection of articles is intended for scientists and engineers who are interested in the analysis of strength and stability of shells.

Card 1/3

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SOV/6206

Transactions of the Conference (Cont.)

COVERAGE: The book is a collection of articles delivered at the Conference on Plates and Shells held in Kazan' from 24 to 29 October 1960. The articles deal with the mathematical theory of plates and shells and its application to the solution, in both linear and nonlinear formulations, of problems of bending, static and dynamic stability, and vibration of regular and sandwich plates and shells of various shapes under various loadings in the elastic and plastic regions. Analysis is made of the behavior of plates and shells in fluids, and the effect of creep of the material is considered. A number of papers discuss problems associated with the development of effective mathematical methods for solving problems in the theory of shells. Some of the reports propose algorithms for the solution of problems with the aid of electronic computers. A total of one hundred reports and notes were presented and discussed during the conference. The reports are arranged alphabetically (Russian) by the author's name.

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3

Transactions of the Conference (Cont.)

SOV/6206

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Amiro, I. Ya. Investigation of the Stability of Stiffened Closed Cylindrical Shells Under Axial Compression Com- bined with Internal Pressure	5
Akhvlediani, N. V. Some Limit-Equilibrium Problems of Ferroconcrete Roofing Shells	10
Balabanov, L. M. General Problems in the Statics of Thick Elastic Isotropic Shells	15
Bolotin, V. V. Asymptotic Method in the Vibration Theory of Elastic Plates and Shells	21
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Card 3/8
3

BALABANOV, M., dots.

Possibilities of sterilization and disinfection of instruments
used in orthodontics. Stomatologija, Sofia no.5:284-287 1953.
(ORTHODONTICS,
antiseptis in)
(ANTISEPSIS AND ASEPSIS,
orthodontics)

BALABANOV, M.; SAKHATCHIEV, A.; TSENTNER, F.

Apparatus for bucco-facial fixation in curietherapy. Khirurgia,
Sofia 10 no.1:83-85 1957.

1. (Iz Nauchnoissledovatelskia onkologichen institut i
Nauchnoissledovatelikia stomatologichen institut.)
(FACE, neoplasms,
radium ther., fixation appar (Bul))
(MOUTH, neoplasms,
same)
(RADIIUM, therapeutic use,
cancer of face & mouth, fixation appar (Bul))

BALABANOV, M.

Bulgaria

[Academic Degrees] Docent

[Affiliation]

[Source] Sofia, Sreden Meditsinski Rabotnik, No 6, 1962, pp 37-42.

[Data] "The Role and the Problems of the Dental Technicians in Stomatology Assistance."

FONKIN, V.F., kand. tekhn. nauk; BALABANOV, M.M., inzh.

Effect of cold lamination on the hardness of the tops of saw teeth.
Der. prom. 13 no.9:13 S '64. (MIRA 17:11)

DATA SOURCE: U.S. ECONOMIC STUDY

Dissertation: "An Investigation of the Fatigue Strength of Crankshafts Made of High-Strength Cast Iron With Spheroidal Graphite." Cand Tech Sci, Central Sci Res Inst of Technology and Machine Building (TsNIITMash), 14 Jun 54. (Vechernaya Moskva, Moscow, 4 Jun 54)

SO: SUM 318, 23 Dec 1954

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Surface Intensity
S-4 Cast I
1000 ft
1000 ft
1000 ft
1000 ft
1000 ft

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8"

BALABANOV N A

USSR/Engineering - Fatigue in cast iron

Card : 1/1

Authors : Kudryavtsev, I. V., Dr. Tech. Sc., Prof.; Balabanov, N. A., Engineer

Title : Fatigue in cast-iron crankshafts

Periodical : Vest. Mash., 34, Ed. 6, 61 - 64, June 1954

Abstract : The economy effected by using cast-iron shafts in place of forged steel is stressed, especially, since the obstacle of the lesser durability of cast iron can be removed by the use of a new high-strength cast iron which can be further improved by surface treatment. The results of experiments are compiled and evaluated, such experiments including the applying of various strains to six types of shafts. Six Russian references, latest 1954. Graphs; tables; drawings; illustrations.

Institution : ...

Submitted : ...

124-58-9-10568

124-58-9-10568

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 160 (USSR)

AUTHORS: Yatskevich, S. I. Balabonov, N. A.

TITLE: Resonance-type Testing Machines for the Fatigue Testing of
Crankshafts (Mashiny rezonansnogo tipa dlya ispytaniy kolen-
chatykh valov na ustalost')

PERIODICAL: V kn.: Konstruktsionnaya prochnost' staley. Moscow,
Mashgiz, 1954, book 63, pp 196-200

ABSTRACT: Bibliographic entry

1. Crankshafts--Fatigue 2. Crankshafts--Test methods 3. Crankshafts-
Testing equipment

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"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130005-8"

KUDRYAVTSEV, N.H.

KUDRYAVTSEV, I.V., doktor tekhnicheskikh nauk; BALABANOV, N.A., kandidat
tekhnicheskikh nauk.

Fatigue strength of steel or cast iron crankshafts and the increase
of their durability by fillet rolling. [Trudy] TSMIITMASH no.74:5-20
'55. (NIRA 9:1)

(Crankshafts) (Steel--Cold working) (Cast iron--Cold working)

SOV/124-57-9-11035

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 162 (USSR)

AUTHORS: Kudryavtsev, I. V., Balabanov, N. A.

TITLE: The Fatigue Life of Crankshafts Manufactured From High-strength Cast Iron and Steel With Case-hardened Crankpins (Ustalostnaya prochnost' kolenchatykh valov iz vysokoprochnogo chuguna i stali s poverhnostno zakalennymi sheykami)

PERIODICAL: V sb.: Povysheniye iznosostoykosti i sroka sluzhby mashin. Kiev - Moscow, Mashgiz, 1956, pp 213-219

ABSTRACT: Hardening was performed on a 200-kw mechanically driven frequency changer with a frequency of 2500 cps and a power consumption of 85 kw. Shafts made of St-45 steel were heated up to 980°C within 20 seconds, those made of high-strength ferrite cast-iron were heated up to 1100°C within 40 seconds. After case-hardening the shafts were tempered in an oil-bath at 160 - 180°C for 2 hours. One series of these shafts was roll-worked under a pressure of 1750 kg. Fatigue testing was performed on a resonance-type testing machine. It was established that rolling the faired corners of shafts with case-hardened

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